ABSTRACT OF THE DISCLOSURE

The present invention provides a speaker verification apparatus and method including inputting an identity claim, selecting voice information of a registered speaker corresponding to the input identity claim, inputting a voice of the speaker, analyzing the input voice so as to extract a feature parameter, calculating a verification distance between a feature parameter of the input voice and that of the voice of the registered speaker and the speaker distances between a feature parameter of the input voice and those of the voices of speakers other than the registered speaker; and determining whether or not the input voice matches the registered speaker corresponding to the input identity claim. A false acceptance error rate is input as a threshold, and the false acceptance error rate can be predetermined by a system manager or a user or can be adjusted depending on the performance. A probability distribution of interspeaker distances is obtained based on the calculated speaker distances between feature parameters of the voices of other registered speakers and that of the input voice. It is determined that the input voice is the voice of the registered person specified by the identity claim, in the case where the verification distance between a feature parameter of the voice of the registered speaker and that of the input voice is included in a rejection region of the input false acceptance error rate in the probability distribution of the interspeaker distances.

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